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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(use as many sheets as necessary) |   | Application Number     |                 |
|   |   | Filing Date            |                 |
|   |   | Named Inventor         | Darrell G. Hill |
|   |   | Group Art Unit         |                 |
|   |   | Examiner Name          |                 |
| Sheet   | 1 | of                     | 2               |
|   |   | Attorney Docket Number | SC10776P D01    |

| U. S. PATENT DOCUMENTS   |                       |                          |                 |   |  |   |
|--|-----------------------|--------------------------|-----------------|---|--|---|
| Examiner Initials*   | Cite No. <sup>1</sup> | U.S. Patent Document     |                 | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|  |                       | Number Code <sup>2</sup> | Kind (if known) |   |  |   |
| VAMS   | 1                     | 5,804,877                |                 | Fuller et al                                    | 09/08/98   |   |
|  | 2                     | 5,264,379                |                 | Shikata   | 11/23/93   |   |
|  | 3                     | 5,448,087                |                 | Streit et al.                                   | 09/05/95   |   |
|  | 4                     | 5,717,231                |                 | Tserng et al.                                   | 02/10/98   |   |
|  | 5                     | 5,683,919                |                 | Tserng  | 11/04/97   |   |
|  | 6                     | 5,710,068                |                 | Hill  | 01/20/98   |   |
|  | 7                     | 5,757,039                |                 | Delaney et al.                                  | 05/26/98   |   |
|  | 8                     | 4,954,457                |                 | Jambotkar                                       | 09/04/90   |   |
|  | 9                     | 5,019,524                |                 | Mitani et al.                                   | 05/28/91   |   |
|  | 10                    | 4,839,303                |                 | Tully et al.                                    | 06/13/89   |   |
|  | 11                    | 5,840,612                |                 | Oki et al.                                      | 11/24/98   |   |
|  | 12                    | 5,001,534                |                 | Lunardi et al.                                  | 03/19/91   |   |
|  | 13                    | 5,702,958                |                 | Liu et al.                                      | 12/30/97   |   |
|  | 14                    | 5,272,095                |                 | Enquist et al.                                  | 12/21/93   |   |

| FOREIGN PATENT DOCUMENTS |                          |  |                     |                        |   |   |  |                |
|--------------------------|--------------------------|--|---------------------|------------------------|---|---|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document                  |                     |                        | Name of Patentee or<br>Applicant of Cited<br>Document | Date of<br>Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>b</sup> |
|                          |                          | Office <sup>3</sup><br>Code <sup>2</sup> | Number <sup>4</sup> | Kind<br><br>(if known) |   |   |  |                |
|                          | 15                       | JP                                       | 2000260975          | A                      | Sigiyama  | 09-2000   |  |                |
|                          | 16                       | JP                                       | 052754444           | A                      | Yamaguchi et al.                                      | 10-1993   |  |                |
|                          | 17                       | JP                                       | 03236224            | A                      | Moritsuka   | 10-1991   |  |                |
|                          | 18                       | JP                                       | 04722               | A                      | Seki  | 01-1992   |  |                |
|                          |                          |  |                     |                        |   |   |  |                |
|                          |                          |  |                     |                        |   |   |  |                |
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| Examiner Signature | <i>Victor A. Randalia Jr</i> | Date Considered |  |
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|   |   | Filing Date              |                 |                        |              |
|   |   | First Named Inventor     | Darrell G. Hill |                        |              |
|   |   | Group Art Unit           |                 |                        |              |
| Examiner Name   |   |                          |                 |                        |              |
| Sheet   | 2 | of                       | 2               | Attorney Docket Number | SC10776P C01 |

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|--------------------|-----------------------|---|----------------|
|                    | 19                    | H. Lin et al., "Super-Gain AlGaAs/GaAs Heterojunction Bipolar Transistors Using An Emitter Edge-Thinning Design", American Institute of Physics, appl. Phys. Letter 47(8), 15 October 1985, pages 839-841.  |                |
|                    | 20                    | W. Lee et al., "Effect of Emitter-Base Spacing on the current Gain of AlGaAs/GaAs Heterojunction Bipolar Transistors", IEEE Electronic Device Letters, Vol. 10, No. 5, May 1989, pages 200-202.   |                |
|                    | 21                    | Wolf, S., "Silicon Processing for the VLSI Era, Volume 2", Process Integration, Sunset Beach, CA, 1990, pages 486-488.  |                |
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